Data Sheet

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FUJITSU COMPUTERS
SIEMENS

ESPRIMO E35xx
Your flexible economy PC

The ESPRIMO E35xx is the gateway to professional computing. The Small Form factor PC extends the Fujitsu Siemens Computers' Value Line product portfolio with an additional form factor.

The basic professional PC is the ultimate balance of valuable performance at very attractive prices. The ESPRIMO E35xx is aimed towards the large enterprises that are looking for a price-conscious professional PC with longer lifecycle.

- Reliable iG31 chipset with Intel Core2 Duo support

- Excellent resolution with on board graphics

- High quality and function stability

- Convenient front access to USB and audio

Windows Vista
Business

	E3510
Mainboard	
Chipset	iG31
Mainboard Number	D2750
Mainboard form factor	µBTX
Processor socket	LGA 775
Front side bus resp. system bus support	800/1066/1333 MHz
BIOS version	Phoenix Vers. 6.0
Flash EPROM BIOS update by software	x
Recovery BIOS	x
Processor	
Intel® Core™ 2 Quad Q6xxx	up to Q6600
Second level cache	6MB/12MB
Front side bus (FSB)	1333MHz
Intel® Core™2 Duo E8xxx	up to E8500
Second level cache	6MB
Front side bus (FSB)	1333MHz
Intel® Core™2 Duo E6xxx	-
Second level cache	-
Front side bus (FSB)	-
Intel® Core™2 Duo E4xxx	up to E4600
Second level cache	2MB
Front side bus (FSB)	800MHz
Intel® Pentium™ Dual core E2xxx	up to E2200
Second level cache	1MB
Front side bus (FSB)	800MHz
Intel® Celeron	up to 440
Second level cache	512 KB
Front side bus (FSB)	800 MHz
Memory	
Memory support	667/800 MHz
DIMM slots	2
dual channel support	x
Max. capacity DDR2	4GB
for dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same	
Interfaces	
Mouse/keyboard (PS2)	x/x
Serial (9pi, 16 byte FIFO, 16550 compatible)	x
Second serial port	-
Parallel (25pin with EPP and ECP)	optional
Display (15 pin, VGA)	x
DVI	optional
Micro (mono) rear	x
Line in (stereo) rear	x
Line out (stereo) rear	x
Micro (mono) front	x
Headphone in front	x
LAN RJ45	x
Universal Serial Bus (USB 2.0) in total	8
therefore USB rear	4
USB front	2
USB internal	2
Interfaces add on cards	
Dual port RS232 , serial	optional
eSATA cable	-
Parallel cable (25pin with EPP and ECP)	optional
Multicardreader	optional
Input device/components	
USB wheel mouse	-
Optical USB wheel mouse	x
Optical USB/PS2 Tilt wheel mouse	optional
LAN on board	
10/100/1000 MBit/s	Realtek RTL8111C
Wake up on LAN (WOL)	x
PXE	x
BootP	-
LAN add on cards	
Gigabit Ethernet, SysKonnect	-
Audio on board	
Internal speaker supports audio playback	no, buzzer only
High definition audio	Realtek ALC262
I/O controller onboard	
Serial ATA	3
Serial ATA II / 3GBit	x/x
Drive bays	3
internal 3,5"	1
external 3,5"	1
external 5,25"	1
Floppy disk drive 1.44 MB standard	optional
Hard disk drives	
Serial ATA II 80 / 160 / 250 / 500 GB	x/x/x/x
supporting NCQ and 3GBit (if chipset support is available)	
Optical drives (SATA)	
16/48-speed DVD ROM	optional
DVD SuperMulti writer double layer support	optional

Slots	
PCI	2 (190 mm) low profile
PCI Express x16	1 (190mm) low profile
PCI Express x1	-
Graphic on board	Intel® GMA3100
Shared memory depending on driver	up to 256 MB
3D SW Interace	Direct X9
Resolution (color depth up to 32 Bit/pixel)	
1024 x 768 (recommended / max*)	85 / 120 Hz
1280 x 1024 (recommended / max*)	85 / 120 Hz
1600 x 1200 (recommended / max*)	85 Hz
1440 x 900 widescreen TFT (VGA / DVI)	x / x
1680 x 1050 widescreen TFT (VGA / DVI)	x / x
1920 x 1200 widescreen TFT (VGA / DVI)	x / x
* refresh rates reflect the max. graphics capabilities. Video quality can be deteriorated when using maximum settings. For TFT we recommend to use 60Hz.	
Graphic add on cards	
NVIDIA GeForce 8400 256 MB, LP (DirectX 10)	optional
NVIDIA GeForce FX 7300LE 128MB, LP (DirectX 9)	optional
NVIDIA GeForce FX 7300LE 256MB, LP (DirectX 9)	optional
NVIDIA Quadro NVS 290 256MB, LP (DirectX10)	optional
NVIDIA GeForce FX 7300LE 128MB (DirectX 9)	-
NVIDIA GeForce FX 7300LE 256MB (DirectX 9)	-
NVIDIA Quadro NVS 290 256MB (DirectX10)	-
DVI adapter incl. Dual Monitoring (DVI/VGA)	optional
Dual-DVI adapter incl. Dual Monitoring (DVI/DVI)	optional
Electrical values	
Rated voltage range, AC	100 - 127 / 200 - 240 V
Rated frequency range	50-60 Hz
Operating voltage range, AC	90 - 137 / 180 - 264 V
Operating line frequency range	47 - 63 Hz
Max. output of power supply	275 W
PFC (power factor correction)	passive
Monitor outlet	no
Power consumption for standard configuration (W) / CPU **(1GB memory, HD, ODD, FDD, Operating system)**	Celeron 440 E8500 Q9450
Maximum (S0, running app. CD in use)	64W 88W 79W
Average (S0, running OS, Idle mode)	48W 50W 44W
Stand by (S3, energy saving modus, WOL enabaled)	2 W
Minimum (ACPI status S5, soft off, **WOL enabled**)	1 W
Heat dissipation (kJ/h / BTU/h) / CPU	E8500
Maximum (S0, running app. CD in use)	319kJ/h / 301BTU/h
Average (S0, running OS, Idle mode)	180kJ/h / 171BTU/h
Stand by (S3, energy saving modus, WOL enabled)	7,2kJ/h / 6,8BTU/h
Minimum (ACPI status S5, soft off, **WOL enabled**)	3,6kJ/h / 3,4BTU/h
1W = 3,6kJ/h, 1W = 3,4121BTU/h	
Noise for standard configuration (HDD, ODD, FDD)	E8500
A weighted sound **power level Lwad** (in B) / Workplace related A-weighted sound **pressure level LpAm** (in dB(A)), (bystander position) (ISO9296)	
Operation mode 1: ODD load (Blue angel requirement)	5,1B / 36dB
Operation mode 2: HDD load (Blue angel requirement)	3,8B / 22dB
Operation mode 3: CPU 90% load (Blue angel requirement)	4,0B / 25dB
Operation mode 4: High load	4,0B / 25dB
Operation mode 5: Office applications	3,8B / 22dB
Idle mode (Blue angel requirement)	3,8B / 22dB
Ambient temperature (IEC 721)	15°C'- 35°C
Dimensions (H x W x D)	106 x 389 x 344 mm
Operating position (vertical/horizontal)	x/x (optional, feet needed)
Weight (depending on config)	approx. 10 kg
Approvals and standards	
CE certification	x
according to EU Directives 89/336/EEC (EMC) and 06/95/EC (Product safety)	
Ergonomics	-
ISO9241 (GS mark)	
Product safety	x
IEC60950, EN60950,	
Electromagn. compatibility	x
EN55022/B, EN55024, EN61000-3-2/3	
Environmental compatibility	
RoHS (Restriction of hazardous substances)	x
WEEE (Waste electrical and electronical equipment)	x
Energy Star	-
Blue Angel	-
Nordic Swan	-
Software (compatibility / preinstalled)	
Microsoft Windows 2000	- / -
Microsoft Windows XP Home	x / -
Microsoft Windows XP Professional	x / opt (TwinLoad)
Microsoft Windows XP Professional x64 Edition	- / -
Microsoft Windows Vista® 32bit	x / optional

Microsoft Windows Vista® 64bit	- / -
Microsoft Windows Vista® Basic Logo (min. 512MB RAM necessary)	x
Microsoft Windows Vista® Premium Logo (min. 1GB RAM and Dual Channel memory necessary)	x
Linux certified	-
Additional Software	
Recovery DVD (Microsoft Windows XP / Vista)	optional
Drivers and Utility DVD (DUDVD) (Microsoft Windows XP / Vista)	x / optional
Others	
Spare part availability	5 years
Compatibility (references)	
Microsoft Operating Systems (HCT / HCL entry)	x
PC 2001, DMI 2.0, WMI 1.5, USB 2.0	x
Manageability	
DeskView 10.x client management including:	
On/Offline remote client management	-
Detailed system inventory management and reports	-
BIOS Management	-
Remote power management	-
System notifications	-
Advanced alerts (ASF implementation)	-
Security Remote Control	-
DeskView Helpdesk Integration	-
DeskUpdate Driver management	-
DeskView Migrate	optional
DeskView Control	optional
PXE 2.1 Boot code	x
BootP Boot Code including Bootmanage Administrator Software	-
Wake up from S5 (off mode)	x
Intrusion switch	-
Security	
Physical Security implemented in the cabinet	
Prepared for Kensington lock, eye for padlock	x
Integrated cabinet lock	-
System Security	
Boot sector virus protection	x
Write protect option for the Flash EPROM	-
Embedded security (TPM1.2)	-
Boot protection for floppy disk/CD drive and write protection for floppy disk drive	-
Control of external interfaces	x
User Security	
User and supervisor BIOS password	x
SystemLock BIOS SmartCard Security	-
SystemLock 2 BIOS SmartCard Security	-
Hard disk password	-
Access protection via external SmartCard reader	optional
Access protection via internal SmartCard reader	-
Fujitsu Siemens Computers MEMORYBIRD BIOS lock	-
Serviceability	
FlexySlot	-
EasyFix	-
EasyChange (for HDD / for optical drives)	-
EasyPull	-
Packaging information	
Dimension outside (H x W x D) in mm	500x290x540
Max. quantity/ pallet	24
Material/ weight in g	
Carton	1270g
EPS / PS	214g
PE	appr. 60g
printed user documentation is bleached in chlorine free process	
Logos	

Recycling information/ End of life service information
product is designed for easy recyclability
information about take back and recycling you can find here
http://www.fujitsu-siemens.com/recycling
information about environmental initiatives, policies, programs and goals can be found here
http://www.fujitsu-siemens.com/aboutus
Product material information
For all restricted substances see the Environmental guideline FSC03230
The data reflects laboratory performance only. The customer configuration may perform differently, depending on the software, components and peripherals connected.

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